

PREPARATION OF CARBON NANOTUBES

Publication number: JP2004534715 (T)

Publication date: 2004-11-18

Inventor(s):

Applicant(s):

Classification:

- international: B01J23/745; B01J23/89; B01J27/043; C01B31/02; D01F9/127; B01J23/745; B01J23/89; B01J27/04; C01B31/00; D01F9/12; (IPC1-7): C01B31/02; D01F9/127

- European: C01B31/02B; Y01N6/00

Application number: JP20030513896T 20010906

Priority number(s): KR20010043659 20010720; WO2001KR01512 20010906

Also published as:

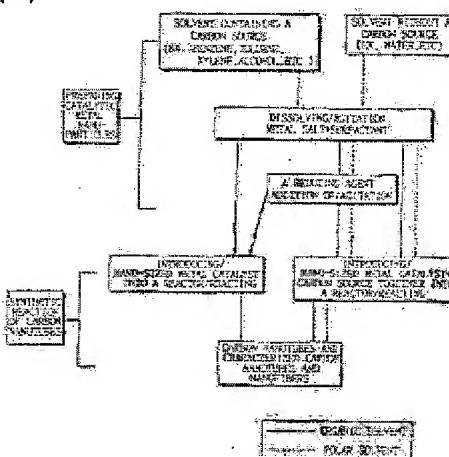
JP4434730 (B2)
WO03008331 (A1)
US2003161782 (A1)
US7329398 (B2)
MXPA04000587 (A)
KR20030008763 (A)
JP2005225757 (A)
EP1334064 (A1)
EP1334064 (A4)
EP1334064 (B1)
CN1535246 (A)
CA2454009 (A1)
CA2454009 (C)
BR0117088 (A)
AU2001294278 (B2)
AT409167 (T)

<< less

Abstract not available for JP 2004534715 (T)

Abstract of corresponding document: WO 03008331 (A1)

The present invention is to provide a process for the preparation of carbon nanotubes or nanofibers, which comprises introducing in a gaseous phase a colloidal solution of metal nanoparticles optionally containing a surfactant together with an optional carbon source into a heated reactor, and carbon nanotubes or nanofibers thus prepared. According to the present invention, the shape and structure of carbon nanotubes or nanofibers can be easily controlled, the carbon nanotubes or nanofibers can be continuously produce on a large scale, the apparatus and the process for the preparation of nanotubes or nanofibers are simplified, and carbon nanotubes or nanofibers having various shapes, structures and properties can be easily and cheaply prepared. Further, the process of the present invention is highly reproducible and favorable in industry.



Data supplied from the *espacenet* database — Worldwide